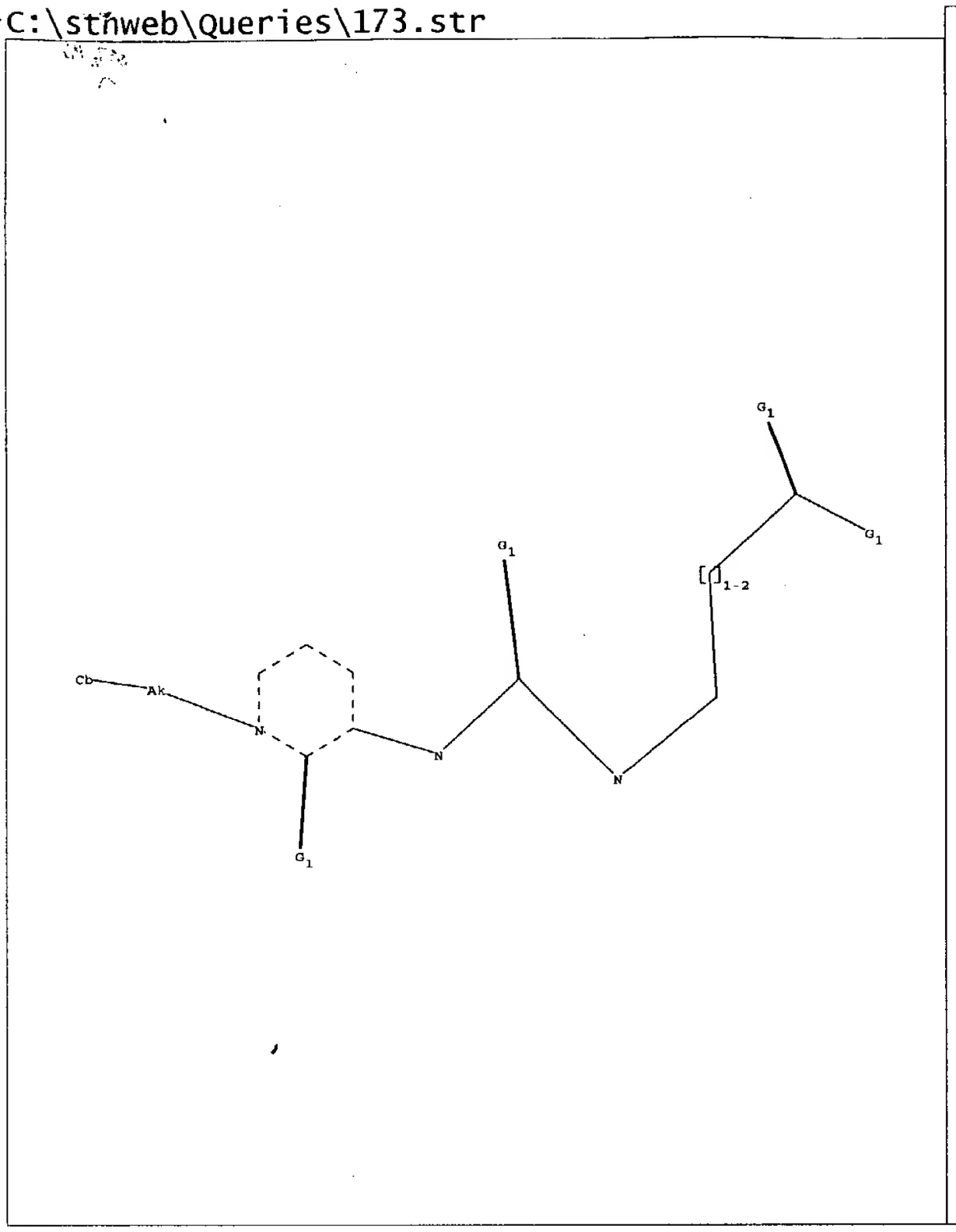
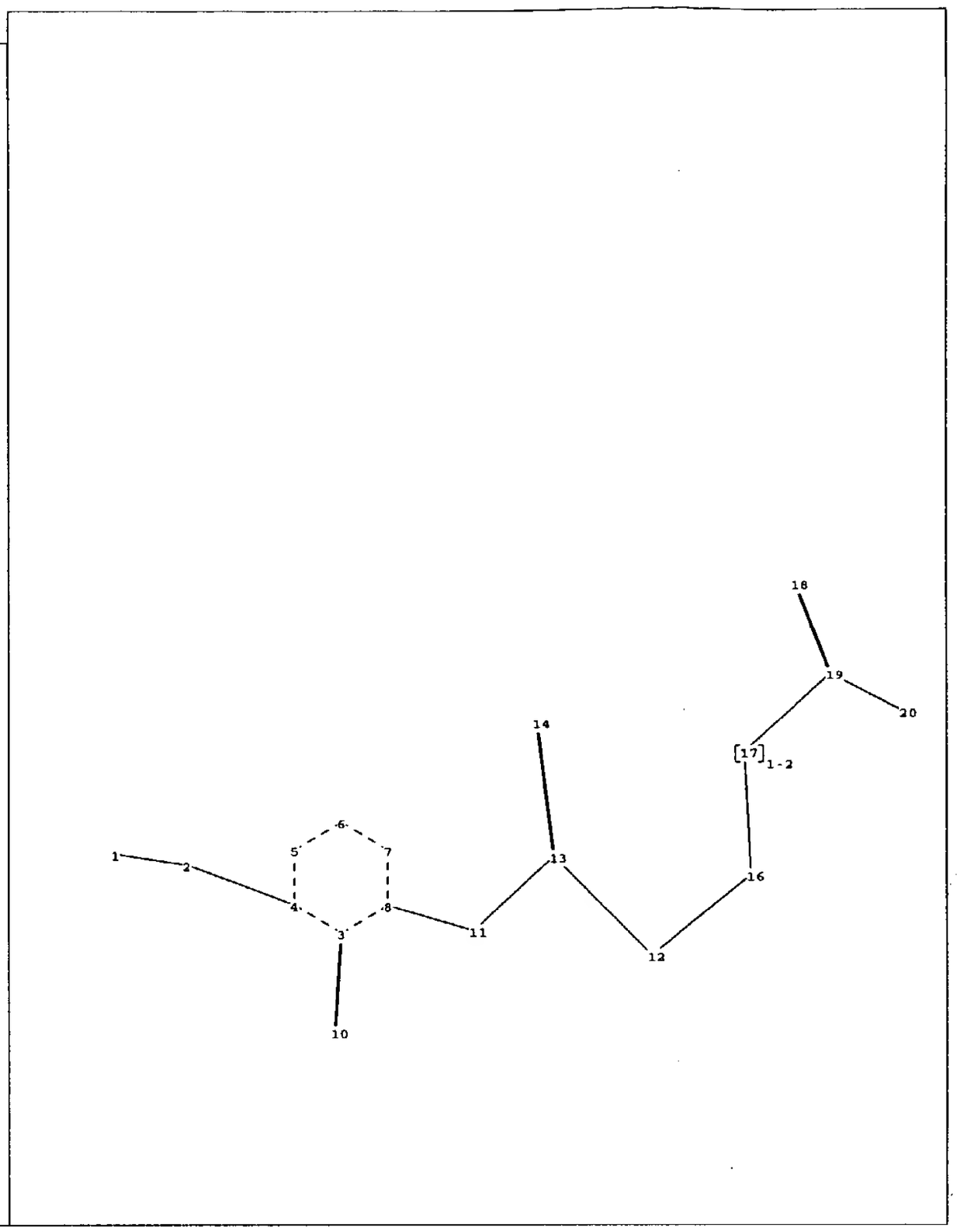
C:\stnweb\Queries\173.str





chain nodes :
1 2 10 11 12 13 14 16 17 18 19 20
ring nodes :
3 4 5 6 7 8
chain bonds :
1-2 2-4 3-10 8-11 11-13 12-13 12-16 13-14 16-17 17-19 18-19 19-20
ring bonds :
3-4 3-8 4-5 5-6 6-7 7-8
exact/norm bonds :
1-2 2-4 3-4 3-8 3-10 4-5 5-6 6-7 7-8 8-11 11-13 12-13 12-16 13-14 18-19
19-20
exact bonds :
16-17 17-19
isolated ring systems :
containing 3 :

G1:O,S

Match level :
1:Atom 2:CLASS 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 10:CLASS 11:CLASS
12:CLASS 13:CLASS 14:CLASS 16:CLASS 17:CLASS 18:CLASS 19:CLASS 20:CLASS

Patent Assignment Abstract of Title

Total Assignments: 1

Application #: 09973142 **Filing Dt:** 10/09/2001 **Patent #:** NONE **Issue Dt:**

PCT #: NONE **Publication #:** 20040063955 **Pub Dt:** 04/01/200

Inventors: Ronald J. Biediger, Qi Chen, E. Radford Decker, George W. Holland, Jamal M. Kassir, Wen Li, Robert V. Market, Ian L. Scott, Chengde Wu, Jian Li

Title: Carboxylic acid derivatives that inhibit the binding of integrins to their receptors

Assignment: 1

Reel/Frame: 012249/0414 **Received:** 10/18/2001 **Recorded:** 10/09/2001 **Mailed:** 12/20/2001 **Pages:** 2

Conveyance: ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).

Assignors:

BIEDIGER, RONALD J.	**Exec Dt:** 10/02/2001
CHEN, QI	**Exec Dt:** 10/02/2001
DECKER, RADFORD E.	**Exec Dt:** 10/02/2001
HOLLAND, GEORGE W.	**Exec Dt:** 10/02/2001
KASSIR, JAMAL M.	**Exec Dt:** 10/02/2001
LI, WEN	**Exec Dt:** 10/02/2001
MARKET, ROBERT V.	**Exec Dt:** 10/02/2001
SCOTT, IAN L.	**Exec Dt:** 10/04/2001
WU, CHENGDE	**Exec Dt:** 10/02/2001
LI, JIAN	**Exec Dt:** 10/02/2001

Assignee: TEXAS BIOTECHNOLOGY CORPORATION
7000 FANNIN, SUITE 1920
HOUSTON, TEXAS 77030

Correspondent: ROCKEY, MILNAMOW & KATZ, LTD.
MARTIN L. KATZ
TWO PRUDENTIAL PLAZA
180 NORTH STETSON AVENUE, SUITE 4700
CHICAGO, IL 60601

Search Results as of: 4/11/2004 5:41:04 P.M.

If you have any comments or questions concerning the data displayed, contact OPR / Assignments at 703-308-9723
Web interface last modified: Oct. 5, 2002

```
* * * * * * * * * *   Welcome to STN International   * * * * * * * * * *

NEWS  1              Web Page URLs for STN Seminar Schedule - N. America
NEWS  2              "Ask CAS" for self-help around the clock
NEWS  3  NOV 24      MSDS-CCOHS file reloaded
NEWS  4  DEC 08      CABA reloaded with left truncation
NEWS  5  DEC 08      IMS file names changed
NEWS  6  DEC 17      DGENE: Two new display fields added
NEWS  7  DEC 18      BIOTECHNO no longer updated
NEWS  8  DEC 19      CROPU no longer updated; subscriber discount no longer
                     available
NEWS  9  DEC 22      ABI-INFORM now available on STN
NEWS 10  JAN 27      Source of Registration (SR) information in REGISTRY updated
                     and searchable
NEWS 11  JAN 27      A new search aid, the Company Name Thesaurus, available in
                     CA/CAplus
NEWS 12  FEB 05      German (DE) application and patent publication number format
                     changes
NEWS 13  MAR 03      MEDLINE and LMEDLINE reloaded
NEWS 14  MAR 03      MEDLINE file segment of TOXCENTER reloaded
NEWS 15  MAR 03      FRANCEPAT now available on STN
NEWS 16  MAR 29      Pharmaceutical Substances (PS) now available on STN
NEWS 17  MAR 29      WPIFV now available on STN
NEWS 18  MAR 29      No connect hour charges in WPIFV until May 1, 2004
NEWS 19  MAR 29      New monthly current-awareness alert (SDI) frequency in RAPRA

NEWS EXPRESS  MARCH 31 CURRENT WINDOWS VERSION IS V7.00A, CURRENT
              MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
              AND CURRENT DISCOVER FILE IS DATED 3 MARCH 2004
NEWS HOURS    STN Operating Hours Plus Help Desk Availability
NEWS INTER    General Internet Information
NEWS LOGIN    Welcome Banner and News Items
NEWS PHONE    Direct Dial and Telecommunication Network Access to STN
NEWS WWW      CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that
specific topic.

  All use of STN is subject to the provisions of the STN Customer
  agreement.  Please note that this agreement limits use to scientific
  research.  Use for software development or design or implementation
  of commercial gateways or other similar uses is prohibited and may
  result in loss of user privileges and other penalties.

  * * * * * * * * * * * * * * * STN  Columbus  * * * * * * * * * * * * * * *


FILE 'HOME' ENTERED AT 17:34:52 ON 11 APR 2004

=> file reg
COST IN U.S. DOLLARS                                  SINCE FILE      TOTAL
                                                         ENTRY    SESSION
FULL ESTIMATED COST                                       0.21       0.21

FILE 'REGISTRY' ENTERED AT 17:34:59 ON 11 APR 2004
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2004 American Chemical Society (ACS)
```

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 9 APR 2004 HIGHEST RN 673855-15-7
DICTIONARY FILE UPDATES: 9 APR 2004 HIGHEST RN 673855-15-7

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2004

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html

=>
L1 STRUCTURE UPLOADED

=> **d l1**
L1 HAS NO ANSWERS
L1 STR

=> **s l1**
SAMPLE SEARCH INITIATED 17:38:06 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 45 TO ITERATE

100.0% PROCESSED 45 ITERATIONS 14 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 498 TO 1302
PROJECTED ANSWERS: 56 TO 504

L2 14 SEA SSS SAM L1

=> **s l1 full**
THE ESTIMATED SEARCH COST FOR FILE 'REGISTRY' IS 155.00 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N or END:**y**
FULL SEARCH INITIATED 17:38:09 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 1111 TO ITERATE

100.0% PROCESSED 1111 ITERATIONS 440 ANSWERS
SEARCH TIME: 00.00.01

L3 440 SEA SSS FUL L1

=> **file hcaplus**
COST IN U.S. DOLLARS SINCE FILE ENTRY TOTAL SESSION
FULL ESTIMATED COST 157.10 157.31

FILE 'HCAPLUS' ENTERED AT 17:38:12 ON 11 APR 2004
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

FILE COVERS 1907 - 11 Apr 2004 VOL 140 ISS 16
FILE LAST UPDATED: 9 Apr 2004 (20040409/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s l3
L4 2 L3

=> d l4, ibib abs fhitstr, 1-2

L4 ANSWER 1 OF 2 HCAPLUS COPYRIGHT 2004 ACS on STN

Full Text | Citing References

ACCESSION NUMBER: 2002:349146 HCAPLUS
DOCUMENT NUMBER: 136:369608
TITLE: Preparation of 3-(N'-oxodihydropyridinylureido)-3-phenylpropanoates as inhibitors of α4β1 integrin binding
INVENTOR(S): Biediger, Ronald J.; Chen, Qi; Holland, George W.; Kassir, Jamal M.; Li, Wen; Market, Robert V.; Scott, Ian L.; Wu, Chengde; Decker, Radford E.; Li, Jian
PATENT ASSIGNEE(S): Texas Biotechnology Corporation, USA
SOURCE: Eur. Pat. Appl., 131 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 3
PATENT INFORMATION:

No Same app-

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1203766	A2	20020508	EP 2001-125494	20011106
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
US 2004063955	A1	20040401	US 2001-973142	20011009
ZA 2001008777	A	20030124	ZA 2001-8777	20011024

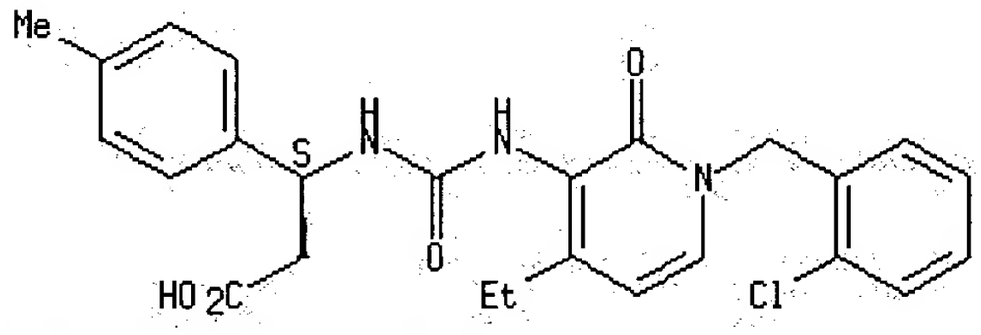
PRIORITY APPLN. INFO.:
US 2000-707068 A 20001106
US 2001-973142 A 20011009
US 1999-132971P P 19990507
US 2000-565920 A2 20000505

OTHER SOURCE(S): MARPAT 136:369608

AB Title compds. were prepd. Thus, 2-ClC6H4CH2ZNH2 (Z = 4-ethyl-2-oxo-1,2-dihydropyridine-1,3-diyl)(prepn. given) was condensed with (S)-4-MeC6H4CH(NH2)CH2CO2Et and COCl2 to give, after sapon., (S)-2-ClC6H4CH2ZNHCONHCH(C6H4Me-4)CH2CO2H (Z as above). Data for biol. activity of title compds. were given.

IT 307520-20-3P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of 3-(N'-oxodihydropyridinylureido)-3-phenylpropanoates as inhibitors of α4β1 integrin binding)
RN 307520-20-3 HCAPLUS
CN Benzenepropanoic acid, β-[[[[1-[(2-chlorophenyl)methyl]-4-ethyl-1,2-dihydro-2-oxo-3-pyridinyl]amino]carbonyl]amino]-4-methyl-, (βS)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.



L4 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2004 ACS on STN

Full Text | Citing References

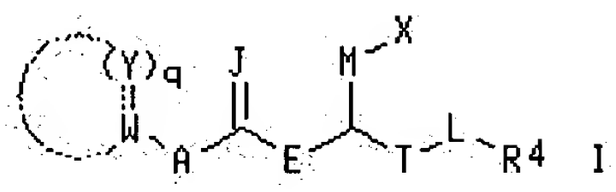
ACCESSION NUMBER: 2000:814302 HCAPLUS
DOCUMENT NUMBER: 133:362963
TITLE: Preparation of β-amino acid derivatives that inhibit the binding of integrins to their receptors
INVENTOR(S): Biediger, Ronald J.; Chen, Qi; Holland, George W.; Kassir, Jamal M.; Li, Wen; Market, Robert V.; Scott, Ian L.; Wu, Chengde
PATENT ASSIGNEE(S): Texas Biotechnology Corporation, USA
SOURCE: PCT Int. Appl., 113 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 3
PATENT INFORMATION:

copending ADR ?

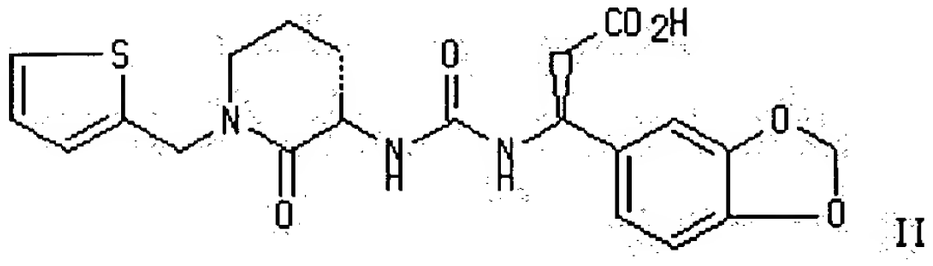
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000067746	A1	20001116	WO 2000-US12303	20000505
WO 2000067746	C2	20020829		
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
EP 1176956	A1	20020206	EP 2000-937527	20000505
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
SI 20744	C	20020630	SI 2000-20021	20000505
BR 2000010293	A	20020716	BR 2000-10293	20000505
JP 2002544161	T2	20021224	JP 2000-616772	20000505
ZA 2001008774	A	20030124	ZA 2001-8774	20011024

NO 2001005418 A 20011221 NO 2001-5418 20011106
PRIORITY APPLN. INFO.: US 1999-132971P P 19990507
WO 2000-US12303 W 20000505

OTHER SOURCE(S): MARPAT 133:362963
GI



I



II

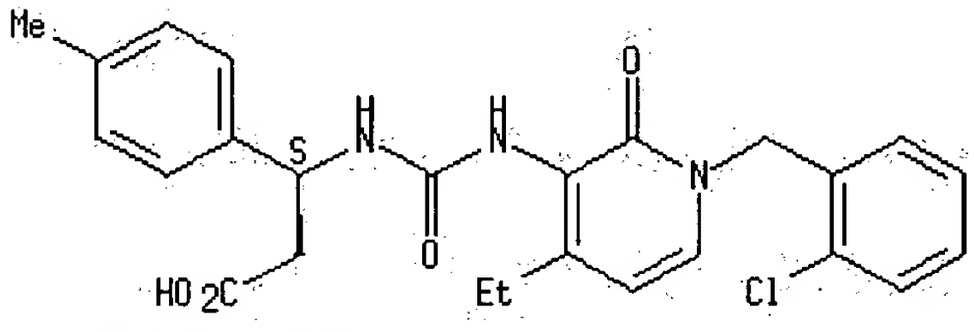
AB Title compds. I [Y, at each occurrence, independently = CO, N, CR1, CR2R3, NR5, CH, O, or S; q = 3-10; A = O, S, CR16R17, NR6; E = CH2, O, S, NR7; J = O, S, NR8; M = CR9R10 or (CH2)0-3; T = CO or (CH2)0-3; L = O, NR11, S, (CH2)0-1; X = CO2B, PO3H2, SO3H, SO2NH2, SO2NHCOR12, OPO3H2, CONHCOR13, CONHSO2R14, tetrazolyl, hydroxyl, H; W = C, CR15, N; B, R1-17 = H, halo, hydroxyl, alkyl, alkoxy, aliph. acyl, CF3, nitro, cycloalkyl, alkylheteroaryl, sulfonyl, carboxyl, etc.] or their pharmaceutically acceptable salts were prepd. for inhibition of the binding of α4β1 integrin to its receptors. Thus, II was prepd. and assayed (IC50 = 0.2 μM) for its ability to suppress binding using a 26-amino acid peptide contg. the CS-1 sequence of fibronectin with N-terminal cysteine coupled to maleimide activated ovalbumin.

IT **307520-20-3P**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of β-amino acid derivs. that inhibit the binding of integrins to their receptors)

RN 307520-20-3 HCAPLUS

CN Benzenepropanoic acid, β-[[[[1-[(2-chlorophenyl)methyl]-4-ethyl-1,2-dihydro-2-oxo-3-pyridinyl]amino]carbonyl]amino]-4-methyl-, (βS)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

```
=> d his

     (FILE 'HOME' ENTERED AT 17:34:52 ON 11 APR 2004)

     FILE 'REGISTRY' ENTERED AT 17:34:59 ON 11 APR 2004
L1              STRUCTURE UPLOADED
L2           14 S L1
L3          440 S L1 FULL

     FILE 'HCAPLUS' ENTERED AT 17:38:12 ON 11 APR 2004
L4            2 S L3

=> file caold
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                         ENTRY    SESSION
FULL ESTIMATED COST                                      23.67     180.98

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)          SINCE FILE      TOTAL
                                                         ENTRY    SESSION
CA SUBSCRIBER PRICE                                      -1.39      -1.39

FILE 'CAOLD' ENTERED AT 17:41:33 ON 11 APR 2004
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2004 AMERICAN CHEMICAL SOCIETY (ACS)

FILE COVERS 1907-1966
FILE LAST UPDATED:  01 May 1997 (19970501/UP)

  This file contains CAS Registry Numbers for easy and accurate
  substance identification.  Title keywords, authors, patent
  assignees, and patent information, e.g., patent numbers, are
  now searchable from 1907-1966.  TIFF images of CA abstracts
  printed between 1907-1966 are available in the PAGE
  display formats.

  This file supports REG1stRY for direct browsing and searching of
  all substance data from the REGISTRY file.  Enter HELP FIRST for
  more information.

=> s l3
L5            0 L3

=> file file hcaplus
'FILE' IS NOT A VALID FILE NAME
Enter "HELP FILE NAMES" at an arrow prompt (=>) for a list of files
that are available.  If you have requested multiple files, you can
specify a corrected file name or you can enter "IGNORE" to continue
accessing the remaining file names entered.
ENTER A FILE NAME OR (IGNORE):s 119:8683/dn
'S' IS AN AMBIGUOUS FILE OR CLUSTER NAME
 SAFETY             - Occupational Health and Safety Cluster
 SESSION            - Current files with L-numbers Cluster
 STRUCTURE          - Structure Searching Cluster
 SUPPLIERS          - Product Directories and Suppliers Cluster
 SCISEARCH          - ISI Science Citation Index from 1974 - present
 SIGLE              - Grey Literature in Europe from 1976 - present
 SOLIDSTATE         - Solid State and Superconductivity Abstracts from 1981
 SOLIS              - German literature in social sciences 1945-present
```

```
 SPECINFO          - Spectral Database Information System
 STANDARDS         - The International Standards Database
 STNGUIDE          - Descriptive information about STN databases
 STNMAIL           - STN Electronic Mail Service
 SWETSCAN          - Swets Table of Contents from 1993 - present
 SYNTHLINE         - Synthline Drug Synthesis Database 1984-present
ENTER FILE OR CLUSTER NAME (IGNORE):end

=> file hcaplus
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                      ENTRY    SESSION
FULL ESTIMATED COST                                    0.42     181.40

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)          SINCE FILE      TOTAL
                                                      ENTRY    SESSION
CA SUBSCRIBER PRICE                                    0.00      -1.39

FILE 'HCAPLUS' ENTERED AT 17:42:15 ON 11 APR 2004
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2004 AMERICAN CHEMICAL SOCIETY (ACS)

Copyright of the articles to which records in this database refer is
held by the publishers listed in the PUBLISHER (PB) field (available
for records published or updated in Chemical Abstracts after December
26, 1996), unless otherwise indicated in the original publications.
The CA Lexicon is the copyrighted intellectual property of the
the American Chemical Society and is provided to assist you in searching
databases on STN.  Any dissemination, distribution, copying, or storing
of this information, without the prior written consent of CAS, is
strictly prohibited.

FILE COVERS 1907 - 11 Apr 2004  VOL 140 ISS 16
FILE LAST UPDATED: 9 Apr 2004  (20040409/ED)

 This file contains CAS Registry Numbers for easy and accurate
 substance identification.

=> s 119:8683/dn
L6              1 119:8683/DN

=> d l6, ibib abs fhitstr, 1

L6   ANSWER 1 OF 1  HCAPLUS  COPYRIGHT 2004 ACS on STN
```

Full Text | Citing References

```
ACCESSION NUMBER:          1993:408683  HCAPLUS
DOCUMENT NUMBER:           119:8683
TITLE:                     Preparation of oxopyridylacetamides as human leukocyte
                           elastase inhibitors
INVENTOR(S):               Bernstein, Peter Robert; Shaw, Andrew; Thomas, Royston
                           Martin; Wolanin, Donald John; Warner, Peter
PATENT ASSIGNEE(S):        Imperial Chemical Industries PLC, UK
SOURCE:                    Eur. Pat. Appl., 96 pp.
                           CODEN: EPXXDW
DOCUMENT TYPE:             Patent
LANGUAGE:                  English
FAMILY ACC. NUM. COUNT:    3
```

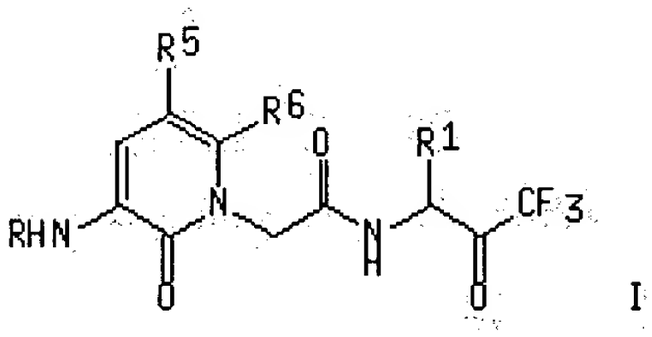
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 509769	A2	19921021	EP 1992-303358	19920415
EP 509769	A3	19930901		
EP 509769	B1	19960911		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, MC, NL, PT, SE				
NO 9201451	A	19921019	NO 1992-1451	19920410
CA 2065794	AA	19921019	CA 1992-2065794	19920410
AU 9214827	A1	19921022	AU 1992-14827	19920410
AU 660664	B2	19950706		
HU 66541	A2	19941228	HU 1992-1225	19920410
JP 06056785	A2	19940301	JP 1992-143140	19920418

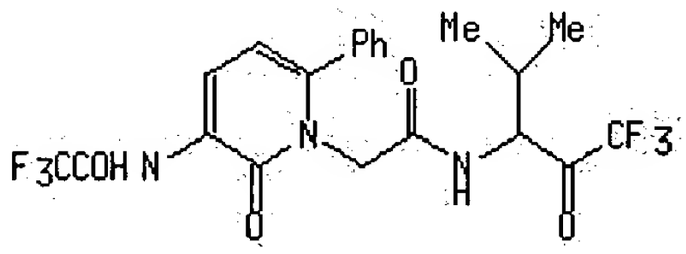
PRIORITY APPLN. INFO.: GB 1991-8357 19910418
GB 1991-8358 19910418
GB 1992-5392 19920312

OTHER SOURCE(S): MARPAT 119:8683

GI



I



II

AB Title compds. [I; R = H, CHO, F3CCO, acyl; R1 = C1-5 alkyl; R5, R6 = H, alkyl; or one of R5, R6 = H, Me; the other = BY; B = (substituted) (hetero)aryl; Y = bond, CH2, CH2CH2, trans-CH:CH], were prepd. Thus, title compd. II, prepd. by oxidn. of the corresponding hydroxyamide, inhibited human leukocyte elastase with Ki = 39 nM.

```
=> sel rn
E1 THROUGH E629 ASSIGNED

=> s 125:599235/dn
L7            0 125:599235/DN

=> s 125:599235/dn
L8            0 125:599235/DN

=> file  caplus
COST IN U.S. DOLLARS                          SINCE FILE      TOTAL
                                                   ENTRY    SESSION
FULL ESTIMATED COST                               12.06     193.46

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)    SINCE FILE      TOTAL
                                                   ENTRY    SESSION
```

CA SUBSCRIBER PRICE -0.69 -2.08

FILE 'CAPLUS' ENTERED AT 17:44:31 ON 11 APR 2004
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

FILE COVERS 1907 - 11 Apr 2004 VOL 140 ISS 16
FILE LAST UPDATED: 9 Apr 2004 (20040409/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> **s 125:599235/dn**
L9 0 125:599235/DN

=> **s 125:599235/an**
L10 0 125:599235/AN

=>